

## CLAIMS

1. A method of distributing the location of a mobile device comprising the steps of:
  - 5 - determining the location of the mobile device
  - encrypting the determined location using an encryption key;
  - transmitting the encrypted location to a server;
  - storing the encrypted location at the server;
  - querying the server from a remote terminal;
  - 10 - transmitting from the server to the remote terminal the encrypted location in response to the query;
  - sharing the predetermined encryption key between the mobile device and the remote terminal but not with the server; and
  - decrypting the location at the remote terminal using the predetermined
  - 15 encryption key.
2. A mobile device configured to determine its location, encrypt its location using an encryption key, transmit the encrypted location to a server, and share the predetermined encryption key with a remote terminal but not the server.
- 20 3. A server configured to receive and store an encrypted location which is encrypted with an encryption key and corresponds to a mobile device; and in response to a query from a remote terminal, to transmit to the remote terminal the encrypted location; wherein between receipt and transmission of the
- 25 encrypted location by the server, the server is not in possession of the encryption key.
4. A terminal configured to query a remote server for the location of a particular mobile device with which it has shared an encryption key
- 30 independently of the server; and upon receipt of an encrypted location encrypted with the encryption key, decrypting the location.